



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Frank O'Bannon
Governor

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May 21, 2003

Mr. Larry Meyer
Delta Faucet Company
P.O. Box 47
Greensburg, Indiana 47240

Re: 031-17357
**Second Minor Permit Revision to
MSOP 031-11706-00007**

Dear Mr. Meyer:

Delta Faucet Company was issued a minor source operating permit on May 25, 2000, for a chrome faucet electroplating source. A Minor Permit Revision, 031-12463, was issued on December 19, 2000, and Notice-Only Changes, 031-15232 and 031-16811, were issued on January 25, 2002, and February 3, 2003, respectively. A letter requesting a revision to this permit was received on March 17, 2003. Pursuant to the provisions of 326 IAC 2-6.1-6 a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document.

This revision is for the construction and operation of the following emission units and pollution control devices:

One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:

- (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;
- (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
- (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
- (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-

Finish Line Nickel/Cleaner Scrubber Stack; and

- (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

The following construction conditions are applicable to the proposed project:

1. The data and information supplied with the application shall be considered part of this permit revision approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Pursuant to IC 13-15-5-3, this approval to construct becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-6.1-6, the minor source operating permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this permit revision which includes this letter, the attached operating conditions applicable to these emission units, and revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact CarrieAnn Paukowits, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395, ext. 18, or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Original signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
CAP:MES

cc: File - Decatur County
U.S. EPA, Region V
Decatur County Health Department
Air Compliance Section Inspector - David Rice
Air Compliance Section Inspector - Joe Foyst
Compliance Branch - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner



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CONSTRUCTION PERMIT and MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**Delta Faucet Company
1425 West Main Street
Greensburg, Indiana 47240**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, (326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 031-11706-00007

Issued by:
Paul Dubenetzky, Branch Chief
Office of Air Quality

Issuance Date: May 25, 2000

Expiration Date: May 25, 2005

First Minor Permit Revision No. 031-12463-00007, issued on December 19, 2000

First Notice Only Change No. 031-15232-00007, issued on January 25, 2002

Second Notice Only Change: 031-16811-00007, issued on February 3, 2003

Second Minor Permit Revision: 031-17357-00007

Pages Affected: 4, 5, 6 and 6a; 4a, 37a, 37b, 37c,
37d, 37e, 37f, 37g and 37h are added

Issued by: Original signed by Paul Dubenetzky
Paul Dubenetzky, Branch Chief
Office of Air Quality

Issuance Date: May 21, 2003

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.6.4 Record Keeping Requirements [40CFR 60.48c, NSPS Subpart Dc]

D.6.5 Natural Gas Boiler Certification

D.7 EMISSIONS UNIT OPERATION CONDITIONS: Chromium Electroplating 31

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.7.1 General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

D.7.2 Chromium Electroplating NESHAP [326 IAC 20-8-1] [40 CFR 63.342(c)&(f)] [40 CFR 63.343(a)(1)&(2)]

D.7.3 Preventive Maintenance Plan [326 IAC 1-6-3]

D.7.4 Operation and Maintenance Plan [40 CFR 63.342(f)(3)]

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.7.5 Performance Testing Requirements [326 IAC 2-1.1-11] [40 CFR 63.344] [40 CFR 63.343(b)(2)] [40 CFR 63.7]

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.7.6 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)(5) & (7)]

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.7.7 Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.346]

D.7.8 Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.344(a)] [40 CFR 63.345] [40 CFR 63.347]

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Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.8.1 General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

D.8.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

D.8.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]

D.8.4 Work Practice Standards [40 CFR 63.342(f)] [326 IAC 20-8-1]

D.8.5 Preventive Maintenance Plan [326 IAC 1-6-3]

D.8.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)] [326 IAC 20-8-1]

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.8.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(1)] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344] [326 IAC 20-8-1]

D.8.8 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)] [326 IAC 20-8-1]

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)] [326 IAC 20-8-1]

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.10 Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [40 CFR 63.346] [326 IAC 20-8-1]

D.8.11 Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347] [326 IAC 20-8-1]

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary chrome faucet electroplating source.

Authorized Individual: Larry Meyer
Source Address: 1425 West Main Street, Greensburg, Indiana 47240
Mailing Address: P.O. Box 47, Greensburg, Indiana 47240
Phone Number: 812 - 663 - 4433
SIC Code: 3432
County Location: Decatur
County Status: Attainment for all criteria pollutants
Source Status: Minor Source Operating Permit
Minor Source, under PSD Rules;
Minor Source, Section 112 of the Clean Air Act

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) One (1) decorative chromium electroplating tank, identified as T27, constructed prior to December 16, 1993, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 1038Cr. This tank is also equipped with a packed-bed scrubber that is not used for compliance.
- (b) One (1) decorative chromium electroplating tank, identified as T23, constructed prior to December 16, 1993, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 281Cr. This tank is also equipped with a packed-bed scrubber that is not used for compliance.
- (c) One (1) nickel electroplating bath, identified as T23, equipped with a wet scrubber and exhausting at stack 1038Ni.
- (d) One (1) nickel electroplating bath, identified as T18, equipped with a wet scrubber and exhausting at stack 281Ni.
- (e) One (1) copper plating tank, identified as 1038, equipped with a wet scrubber and exhausting at stack 1038Cu.
- (f) One (1) cyanide plating tank, identified as T18, equipped with a wet scrubber and exhausting at stack 574.
- (g) One (1) formaldehyde electroless plating tank, identified as EC Tank T12/T13, equipped with a wet scrubber and exhausting at stack 489.
- (h) One (1) Brite Dip tank, identified as T14, equipped with a wet scrubber and exhausting at stack 1715.

- (i) Two (2) strip lines, identified as 255R and 255P, using nitric acid and sulfuric acid, respectively, and equipped with wet scrubbers and exhausting at stacks 255R and 255P, respectively. A used acid tank and an acid/cleaner tank exhaust to the same scrubber as strip line 255R and stack 255R.
- (j) Buffing operations, equipped with three (3) air washers, identified as 2125, 2490 and 3011, and exhausting at stacks 2126, 2491 and 3011, respectively.
- (k) Brazing operations, identified as 10200, exhausting at stacks 1183, 1873, 1874, 1212 and 1105, capacity: 10.3 pounds per hour of solder, 1,800 pounds per hour of brass or copper parts, and 5.72 million British thermal units per hour.
- (l) One (1) cure oven, identified as 569, fired by natural gas and exhausting at stacks 569 North and 569 South, capacity: 3.6 million British thermal units per hour.
- (m) One (1) natural gas fired fluidized bed burn-off oven, rated at 0.99 million British thermal units per hour (mmBtu/hr), with a maximum capacity of 301 pounds per hour of parts and 1.56 pounds per hour of sand, using a cyclone for particulate matter control, and exhausting at one (1) stack identified as 2918.
- (n) One (1) powder spray booth, identified as 1421, equipped with a baghouse and exhausting to stack 1421, capacity: 16 pounds of powder per hour and 1,000 pounds per hour of raw materials.
- (o) One (1) boiler, identified as 1854, constructed in 1993, fired by natural gas and exhausting at stack 1854, capacity: 2.10 million British thermal units per hour.
- (p) Two (2) boilers, identified as 1307 and 1308, constructed in 1987, fired by natural gas and exhausting at stack 1307/1308, capacity: 0.75 million British thermal units per hour, each.
- (q) One (1) boiler, identified as 586, constructed in 1975, fired by natural gas, exhausting at stack 586, capacity: 25.20 million British thermal units per hour.
- (r) One (1) boiler, identified as 1513, constructed in 1990, fired by natural gas, exhausting at stack 1513, capacity: 32.94 million British thermal units per hour.
- (s) One (1) boiler, identified as 2256, constructed in 1994, fired by natural gas, exhausting at stack 2256, capacity: 14.70 million British thermal units per hour.
- (t) One (1) decorative chromium electroplating tank, identified as T21, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 253Cr. This tank is also equipped with a composite mesh pad scrubber that is not used for compliance.
- (u) One (1) rack strip line, identified as 1038, consisting of two (2) rack strip tanks, four (4) rinse tanks and one (1) hot rinse tank, equipped with a wet scrubber and exhausting to stack 3230, maximum capacity: 2.05 pounds of alkaline cleaner per hour, 0.09 pounds of aqua ammonia per hour, 0.06 pounds of Acetic Acid per hour, and 0.49 pounds of Nitric Acid per hour.
- (v) One (1) powder spray booth, identified as 1599, constructed in April 1991, equipped with a baghouse and exhausting through stack 1599, capacity: 0.16 pounds of powder per hour and 34 pounds of parts coated per hour.

- (w) One (1) WWT sludge dryer, identified as 2209, equipped with a wet scrubber.
- (x) One (1) maintenance welding booth, identified as Booth 11-1, exhausting to stack 11-1, capacity: 0.2 pound of Oxyacetylene welding wire per hour.
- (y) One (1) tool room welding booth, exhausting to stack 1799, capacity: 0.2 pound of Oxyacetylene welding wire per hour.
- (z) Two (2) lab hoods.
- (aa) One (1) inductively coupled plasma (ICP) unit.
- (bb) One (1) natural gas-fired drying oven, with a heat input capacity of 0.5 mmBtu/hr, capable of drying a maximum of 300 pounds of plastic parts per hour, in 1300 pounds of steel rack per hour, and exhausting at one (1) stack identified as 3559.
- (cc) One (1) 0.8 MMBtu/hr natural gas fired curing oven, identified as curing oven 3641, curing epoxy coating onto parts at a maximum rate of 40 pounds per hour, with emissions exhausted through Stack 3641.
- (dd) One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:
 - (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;
 - (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
 - (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
 - (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and
 - (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

SECTION D.8

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (dd) One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:
- (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;
 - (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
 - (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
 - (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and
 - (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.8.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the two (2) decorative chromium plating tanks, identified as stations 68 and 69, described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.

D.8.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to the two (2) decorative chromium plating tanks, identified as stations 68 and 69.

D.8.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]

- (a) The emission limitations in this condition apply only during tank operation, and also apply

during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.

- (b) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, by:

Not allowing the surface tension of the electroplating bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] at any time during operation of two (2) decorative chromium plating tanks, identified as stations 68 and 69, when a chemical fume suppressant containing a wetting agent is used.

D.8.4 Work Practice Standards [40 CFR 63.342(f)] [326 IAC 20-8-1]

The following work practice standards apply to two (2) decorative chromium plating tanks, identified as stations 68 and 69:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain the two (2) decorative chromium plating tanks, identified as stations 68 and 69, including the fume suppressant containing a wetting agent and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.8.6.
- (b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.8.6.
- (c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.
- (d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.
- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.8.6. Revisions may be required if IDEM, OAQ finds that the plan:
- (1) Does not address a malfunction or period of excess emissions that has occurred;
 - (2) Fails to provide for the operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, including the fume suppressant containing a wetting agent and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
 - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, monitoring equipment or other causes of excess emissions as quickly as practicable.

For the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the Permittee shall comply with the requirements of this condition on and after the start-up date of each tank.

The work practice standards that address operation and maintenance must be followed during malfunctions and periods of excess emissions.

D.8.5 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for the two (2) decorative chromium plating tanks, identified as stations 68 and 69.

D.8.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)] [326 IAC 20-8-1]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of the two (2) decorative chromium plating tanks, identified as stations 68 and 69. The OMP shall specify the operation and maintenance criteria for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and monitoring equipment and shall include the following elements:
 - (1) Manufacturers recommendations for maintenance of the monitoring equipment used to measure surface tension;
 - (2) A standardized checklist to document the operation and maintenance criteria for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and the monitoring equipment.
 - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.
 - (4) A systematic procedure for identifying malfunctions and periods of excess emissions of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.8.5, as the OMP, provided the alternative plans meet the above listed criteria in Condition D.8.6(a).
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.8.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(1)] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344] [326 IAC 20-8-1]

- (a) Pursuant to 40 CFR 63.343(c)(5)(i), the Permittee has accepted 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation, in lieu of establishing the maximum surface tension during an initial performance test.
- (b) The Permittee is not required to test the two (2) decorative chromium plating tanks, identified as stations 68 and 69 by this permit. However, IDEM, OAM may require testing when necessary to determine if the tanks are in compliance. If testing is required by IDEM, OAM, compliance shall be determined by a performance test conducted in accordance with the provisions of 40 CFR 63.344 and Section C - Performance Testing.
- (c) Any change, modification, or reconstruction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.8.8 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)] [326 IAC 20-8-1]

In lieu of establishing the maximum surface tension during a performance test, the Permittee shall accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. The Permittee is exempt from conducting a performance test only if the criteria of 40 CFR 63.343(b)(2) are met.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5 (a)(2)] [40 CFR 63.343(c)] [326 IAC 20-8-1]

- (a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limit specified in Condition D.8.3, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.
 - (1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:
 - (A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.
 - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (C) Once an exceedance occurs as indicated through surface tension

monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.

- (2) Once a bath solution is drained from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts may be considered operating time.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.10 Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [40 CFR 63.346] [326 IAC 20-8-1]

The Permittee shall maintain records to document compliance with Conditions D.8.3, D.8.4 and D.8.6. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the fume suppressant containing a wetting agent and monitoring equipment to document that the inspection and maintenance required by Conditions D.8.7 and D.8.9 have taken place. The record can take the form of a checklist and should identify the following:
 - (1) The device inspected;
 - (2) The date of inspection;
 - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
 - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.
- (b) Records of all maintenance performed on the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent, and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent, and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.

- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.
- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating time, as defined in Condition D.8.9(b), of each tank, during the reporting period.
- (k) Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.
- (l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.8.11.

D.8.11 Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347] [326 IAC 20-8-1]

The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.

(a) Notifications:

(1) Initial Notifications

The Permittee shall submit an Initial Notification for each new or reconstructed tank as follows:

- (A) A notification of the actual dates when construction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, commenced shall be submitted no later than thirty (30) days after such dates.
- (B) A notification of the actual date of startup of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, shall be submitted within thirty (30) days after such date.

(2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.

- (A) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
- (B) The NCS for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, shall be submitted to IDEM, OAQ no later than 30 days after the startup date.

(3) Notification of Construction or Reconstruction

Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct the two (2) decorative chromium plating tanks, identified as stations 68 and 69, without submitting a Notification of Construction or Reconstruction (NCR)

to IDEM, OAQ.

- (A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
- (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
- (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct the two (2) decorative chromium plating tanks, identified as stations 68 and 69, serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.

(b) Performance Test Results

The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because the two (2) decorative chromium plating tanks, identified as stations 68 and 69, are located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
 - (A) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.
 - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If both of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:
 - (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.8.9(b) for the reporting period; and

- (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.8.9(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

- (3) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Minor Permit Revision to a Minor Source Operating Permit

Source Background and Description

Source Name:	Delta Faucet Company
Source Location:	1425 West Main Street, Greensburg, Indiana 47240
County:	Decatur
SIC Code:	3432
Operation Permit No.:	MSOP 031-11706-00007
Operation Permit Issuance Date:	May 25, 2000
Minor Permit Revision No.:	MPR 031-17357-00007
Permit Reviewer:	CarrieAnn Paukowits

The Office of Air Quality (OAQ) has reviewed a revision application from Delta Faucet Company relating to the construction and operation of the following emission units and pollution control devices:

One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:

- (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;
- (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
- (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
- (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and

- (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

History

On March 17, 2003, Delta Faucet Company submitted an application to the OAQ requesting to add a multi-finish electroplating strip line to their existing plant. Delta Faucet Company was issued a Minor Source Operating Permit (MSOP) on May 25, 2000. A Minor Permit Revision, 031-12463, was issued on December 19, 2000, and Notice-Only Changes, 031-15232 and 031-16811, were issued on January 25, 2002, and February 3, 2003, respectively.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
Multi-Finish Line Chromium Scrubber Stack	Chrome plating tanks and chrome pre-dip	45	2.5	14,000	Ambient
Multi-Finish Line Nickel/Cleaner Scrubber Stack	Nickel plating tanks, copper sulfate plating tanks, chrome strip and cleaner tanks	45	5.5	70,000	Ambient
Multi-Finish Line Rack Strip Scrubber Stack	Rack strip tanks	45	2.17	12,000	Ambient

Recommendation

The staff recommends to the Commissioner that the MSOP Minor Permit Revision be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on March 17, 2003. Additional information was received on April 3, 4 and 14, 2003.

Emission Calculations

Chromium emissions (Single HAP) from the biggest chromium electroplating source in Indiana are less than ten (10) tons per year and Delta Faucet Company is a much smaller source in comparison. Therefore, no emission calculations were necessary for the chromium electroplating because the chromium emissions from this source will be less than ten (10) tons per year. The calculations of emissions from nickel and copper electroplating are not necessary for the same reason. However, the calculations submitted by the applicant have been verified and found to be accurate and correct. The calculations are on page 1 of 1 of Appendix A.

Potential To Emit of Revision

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA.”

This table reflects the PTE before controls for this revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	0.465
PM ₁₀	0.465
SO ₂	-
VOC	0.461
CO	-
NO _x	-

HAPs	Potential To Emit (tons/year)
Chromium	0.001
Nickel	0.195
Glycol Ethers	negligible
Lead	negligible
TOTAL	0.196

Justification for Revision

The MSOP is being revised through a MSOP Minor Permit Revision. This revision is being performed pursuant to 326 IAC 2-6.1-6(g)(6), “A modification that is not described under subsection (d)(14) or (d)(15) and is subject to a RACT, a NSPS, or a NESHAP, and the RACT, NSPS, or NESHAP is the most stringent applicable requirement, except for those modifications that would be subject to the provisions of 40 CFR 63, Subpart B Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources*. As part of the application required under subsection (c), the applicant shall acknowledge the requirement to comply with the RACT, NSPS, or NESHAP.”

County Attainment Status

The source is located in Decatur County.

Pollutant	Status
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Decatur County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Decatur County has been classified as attainment or unclassifiable for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	5.00
PM ₁₀	6.51
SO ₂	58.4
VOC	3.35
CO	32.0
NO _x	44.2

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the 28 listed source categories.
- (b) These emissions are based upon the TSD for the most recent approval for this source, 031-16811-00007, issued on February 3, 2003.

Potential to Emit of Revision After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units.

	Potential to Emit (tons/year)						
Process/facility	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Proposed Revision	0.465	0.465	0.00	0.461	0.00	0.00	0.195
Existing Emission Units	5.00	6.51	58.4	3.35	32.0	44.2	0.01
Total	5.47	6.98	58.4	3.81	32.0	44.2	0.205
MSOP Threshold Level	100	100	100	100	100	100	10/25

This revision to the existing MSOP will **not** change the status of the stationary source because the potential emissions from the entire source will still be less than the Part 70 major source thresholds.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this proposed revision.
- (b) The two (2) decorative chromium plating tanks, identified as stations 68 and 69, are subject to the National Emission Standards for Hazardous Air Pollutants, (40 CFR 63, Subpart N, and 326 IAC 20-8-1) because decorative chromium electroplating takes place in the tanks. Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-8-1, the chromium electroplating operations are subject to the following conditions:
 - (1) Emission Limitations:
The Permittee shall comply with the requirements of this condition on and after the compliance date for the tanks. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, by:

Not allowing the surface tension of the anodizing bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] at any time during operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, when a chemical fume suppressant containing a wetting agent is used.
 - (2) Monitoring
Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limit specified above, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.
 - (A) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:
 - (i) The surface tension shall be measured once every 4 hours during

operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.

- (ii) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (iii) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (ii) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.
 - (B) Once a bath solution is drained from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (ii) and (iii) above.
 - (C) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts may be considered operating time.
- (3) Reporting Requirements:
The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.
- (A) Notifications:
 - (i) Initial Notifications
The Permittee shall submit an Initial Notification for each new or reconstructed tank as follows:
 - (1) A notification of the actual dates when construction of the two (2) decorative chromium plating tanks, identified as

stations 68 and 69, commenced shall be submitted no later than thirty (30) days after such dates.

- (2) A notification of the actual date of startup of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, shall be submitted within thirty (30) days after such date.
- (ii) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.
 - (1) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
 - (2) The NCS for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, no later than 30 days after the startup date.
- (iii) Notification of Construction or Reconstruction
Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct the two (2) decorative chromium plating tanks, identified as stations 68 and 69, without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.
 - (1) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
 - (2) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
 - (3) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct the two (2) decorative chromium plating tanks, identified as stations 68 and 69, serves as this notification.
 - (4) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.
- (B) Performance Test Results
 - (i) The Permittee shall document results from any future performance

tests in a complete test report that contains the information required in 40 CFR 344(a).

- (ii) The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(C) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, using the Ongoing Compliance Status Report form provided with the permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because the two (2) decorative chromium plating tanks, identified as stations 68 and 69, are located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

- (i) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
 - (1) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.
 - (2) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (ii) If both of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:
 - (1) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined above for the reporting period; and
 - (2) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined above.

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semi-annually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

- (iii) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted,

or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

- (c) The requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) are not applicable to this source because the source is not a major source of hazardous air pollutant (HAP) emissions (i.e., the source does not have the potential to emit 10 tons per year or greater of a single HAP or 25 tons per year or greater of a combination of HAPs) and the source does not include one or more units that belong to one or more source categories affected by the Section 112(j) MACT Hammer date of May 15, 2002.

State Rule Applicability - Individual Facilities

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-1(b)(14), the multi-finish electroplating line is exempt from the requirements of 326 IAC 6-3, Particulate Emission Limitations for Manufacturing Processes, because the potential PM emissions from the multi-finish electroplating line are less than 0.551 pound per hour.
- (b) Pursuant to 326 IAC 6-3-1(c)(6), this rule is not applicable to the chrome electroplating operations because a particulate limit for the electroplating is established in 326 IAC 20-8-1.

Compliance Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

The two (2) decorative chromium plating tanks, identified as stations 68 and 69, have applicable compliance monitoring conditions as specified below:

- (a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limits, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.

- (1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:
 - (A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.
 - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.
- (2) Once a bath solution is drained from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts may be considered operating time.

These monitoring conditions are necessary because the fume suppressant containing a wetting agent must operate properly to ensure compliance with 326 IAC 20-8-1, 40 CFR 63, Subpart N, and 326 IAC 2-8 (MSOP).

Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) One (1) decorative chromium electroplating tank, identified as T27, constructed prior to December 16, 1993, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 1038Cr. This tank is also equipped with a packed-bed scrubber that is not used for compliance.
- (b) One (1) decorative chromium electroplating tank, identified as T23, constructed prior to December 16, 1993, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 281Cr. This tank is also equipped with a packed-bed scrubber that is not used for compliance.
- (c) One (1) nickel electroplating bath, identified as T23, equipped with a wet scrubber and exhausting at stack 1038Ni.
- (d) One (1) nickel electroplating bath, identified as T18, equipped with a wet scrubber and exhausting at stack 281Ni.
- (e) One (1) copper plating tank, identified as 1038, equipped with a wet scrubber and exhausting at stack 1038Cu.
- (f) One (1) cyanide plating tank, identified as T18, equipped with a wet scrubber and exhausting at stack 574.
- (g) One (1) formaldehyde electroless plating tank, identified as EC Tank T12/T13, equipped with a wet scrubber and exhausting at stack 489.
- (h) One (1) Brite Dip tank, identified as T14, equipped with a wet scrubber and exhausting at stack 1715.
- (i) Two (2) strip lines, identified as 255R and 255P, using nitric acid and sulfuric acid, respectively, and equipped with wet scrubbers and exhausting at stacks 255R and 255P, respectively. A used acid tank and an acid/cleaner tank exhaust to the same scrubber as strip line 255R and stack 255R.
- (j) Buffing operations, equipped with three (3) air washers, identified as 2125, 2490 and 3011, and exhausting at stacks 2126, 2491 and 3011, respectively.
- (k) Brazing operations, identified as 10200, exhausting at stacks 1183, 1873, 1874, 1212 and 1105, capacity: 10.3 pounds per hour of solder, 1,800 pounds per hour of brass or copper parts, and 5.72 million British thermal units per hour.
- (l) One (1) cure oven, identified as 569, fired by natural gas and exhausting at stacks 569 North and 569 South, capacity: 3.6 million British thermal units per hour.
- (m) One (1) natural gas fired fluidized bed burn-off oven, rated at 0.99 million British thermal units per hour (mmBtu/hr), with a maximum capacity of 301 pounds per hour of parts and 1.56 pounds per hour of sand, using a cyclone for particulate matter control, and exhausting at one (1) stack identified as 2918.
- (n) One (1) powder spray booth, identified as 1421, equipped with a baghouse and exhausting

to stack 1421, capacity: 16 pounds of powder per hour and 1,000 pounds per hour of raw materials.

- (o) One (1) boiler, identified as 1854, constructed in 1993, fired by natural gas and exhausting at stack 1854, capacity: 2.10 million British thermal units per hour.
- (p) Two (2) boilers, identified as 1307 and 1308, constructed in 1987, fired by natural gas and exhausting at stack 1307/1308, capacity: 0.75 million British thermal units per hour, each.
- (q) One (1) boiler, identified as 586, constructed in 1975, fired by natural gas, exhausting at stack 586, capacity: 25.20 million British thermal units per hour.
- (r) One (1) boiler, identified as 1513, constructed in 1990, fired by natural gas, exhausting at stack 1513, capacity: 32.94 million British thermal units per hour.
- (s) One (1) boiler, identified as 2256, constructed in 1994, fired by natural gas, exhausting at stack 2256, capacity: 14.70 million British thermal units per hour.
- (t) One (1) decorative chromium electroplating tank, identified as T21, using a hexavalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 253Cr. This tank is also equipped with a composite mesh pad scrubber that is not used for compliance.
- (u) One (1) rack strip line, identified as 1038, consisting of two (2) rack strip tanks, four (4) rinse tanks and one (1) hot rinse tank, equipped with a wet scrubber and exhausting to stack 3230, maximum capacity: 2.05 pounds of alkaline cleaner per hour, 0.09 pounds of aqua ammonia per hour, 0.06 pounds of Acetic Acid per hour, and 0.49 pounds of Nitric Acid per hour.
- (v) One (1) powder spray booth, identified as 1599, constructed in April 1991, equipped with a baghouse and exhausting through stack 1599, capacity: 0.16 pounds of powder per hour and 34 pounds of parts coated per hour.
- (w) One (1) WWT sludge dryer, identified as 2209, equipped with a wet scrubber.
- (x) One (1) maintenance welding booth, identified as Booth 11-1, exhausting to stack 11-1, capacity: 0.2 pound of Oxyacetylene welding wire per hour.
- (y) One (1) tool room welding booth, exhausting to stack 1799, capacity: 0.2 pound of Oxyacetylene welding wire per hour.
- (z) Two (2) lab hoods.
- (aa) One (1) inductively coupled plasma (ICP) unit.
- (bb) One (1) natural gas-fired drying oven, with a heat input capacity of 0.5 mmBtu/hr, capable of drying a maximum of 300 pounds of plastic parts per hour, in 1300 pounds of steel rack per hour, and exhausting at one (1) stack identified as 3559.
- (cc) One (1) 0.8 MMBtu/hr natural gas fired curing oven, identified as curing oven 3641, curing epoxy coating onto parts at a maximum rate of 40 pounds per hour, with emissions exhausted through Stack 3641.

- (dd) One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:**
- (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;**
 - (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;**
 - (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;**
 - (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;**
 - (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;**
 - (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;**
 - (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and**
 - (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.**

SECTION D.8

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (dd) One (1) multi-finish electroplating line, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:
- (1) Five (5) nickel plating tanks, identified as stations 32 through 35, 39 through 42, 46, and 49 through 56, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (2) One (1) copper sulfate plating tank, identified as stations 27 and 28, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (3) Two (2) decorative chromium plating tanks, identified as stations 68 and 69, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a combination packed-bed scrubber and mesh-pad system and is not used for compliance, and the Multi-Finish Line Chromium Scrubber Stack;
 - (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
 - (5) Two (2) rack strip tanks, identified as stations 207 and 208, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
 - (6) Three (3) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
 - (7) Rinse tanks, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and
 - (8) Ten (10) cleaner tanks, identified as stations 4, 5, 7, 8, 11, 12, 18, 22, 25 and 62, equipped with the nickel/clean scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.8.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the two (2) decorative chromium plating tanks, identified as stations 68 and 69, described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.

D.8.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to the two (2) decorative chromium plating tanks, identified as stations 68 and 69.

D.8.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]

(a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.

(b) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, by:

Not allowing the surface tension of the electroplating bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] at any time during operation of two (2) decorative chromium plating tanks, identified as stations 68 and 69, when a chemical fume suppressant containing a wetting agent is used.

D.8.4 Work Practice Standards [40 CFR 63.342(f)] [326 IAC 20-8-1]

The following work practice standards apply to two (2) decorative chromium plating tanks, identified as stations 68 and 69:

(a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain the two (2) decorative chromium plating tanks, identified as stations 68 and 69, including the fume suppressant containing a wetting agent and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.8.6.

(b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.8.6.

(c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.

(d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.

(e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.8.6. Revisions may be required if IDEM, OAQ finds that the plan:

(1) Does not address a malfunction or period of excess emissions that has occurred;

- (2) Fails to provide for the operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, including the fume suppressant containing a wetting agent and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
- (3) Does not provide adequate procedures for correcting malfunctioning process equipment, monitoring equipment or other causes of excess emissions as quickly as practicable.

For the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the Permittee shall comply with the requirements of this condition on and after the start-up date of each tank.

The work practice standards that address operation and maintenance must be followed during malfunctions and periods of excess emissions.

D.8.5 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for the two (2) decorative chromium plating tanks, identified as stations 68 and 69.

D.8.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)] [326 IAC 20-8-1]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of the two (2) decorative chromium plating tanks, identified as stations 68 and 69. The OMP shall specify the operation and maintenance criteria for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and monitoring equipment and shall include the following elements:
 - (1) Manufacturers recommendations for maintenance of the monitoring equipment used to measure surface tension;
 - (2) A standardized checklist to document the operation and maintenance criteria for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and the monitoring equipment.
 - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.
 - (4) A systematic procedure for identifying malfunctions and periods of excess emissions of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.8.5, as the OMP, provided the alternative

plans meet the above listed criteria in Condition D.8.6(a).

- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.8.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(1)] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344] [326 IAC 20-8-1]

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- (a) Pursuant to 40 CFR 63.343(c)(5)(i), the Permittee has accepted 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation, in lieu of establishing the maximum surface tension during an initial performance test.
 - (b) The Permittee is not required to test the two (2) decorative chromium plating tanks, identified as stations 68 and 69 by this permit. However, IDEM, OAM may require testing when necessary to determine if the tanks are in compliance. If testing is required by IDEM, OAM, compliance shall be determined by a performance test conducted in accordance with the provisions of 40 CFR 63.344 and Section C - Performance Testing.
 - (c) Any change, modification, or reconstruction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.8.8 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)] [326 IAC 20-8-1]

In lieu of establishing the maximum surface tension during a performance test, the Permittee shall accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. The Permittee is exempt from conducting a performance test only if the criteria of 40 CFR 63.343(b)(2) are met.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)] [326 IAC 20-8-1]

(a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limit specified in Condition D.8.3, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.

(1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:

(A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.

(B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.

(C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.

(2) Once a bath solution is drained from the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease

in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.

- (b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts may be considered operating time.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.8.10 Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [40 CFR 63.346] [326 IAC 20-8-1]

The Permittee shall maintain records to document compliance with Conditions D.8.3, D.8.4 and D.8.6. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the fume suppressant containing a wetting agent and monitoring equipment to document that the inspection and maintenance required by Conditions D.8.7 and D.8.9 have taken place. The record can take the form of a checklist and should identify the following:
 - (1) The device inspected;
 - (2) The date of inspection;
 - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
 - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.
- (b) Records of all maintenance performed on the two (2) decorative chromium plating tanks, identified as stations 68 and 69, and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent, and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, the fume suppressant containing a wetting agent, and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.
- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.

- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating time, as defined in Condition D.8.9(b), of each tank, during the reporting period.
- (k) Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.
- (l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.8.11.

D.8.11 Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347] [326 IAC 20-8-1]

The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.

(a) Notifications:

(1) Initial Notifications

The Permittee shall submit an Initial Notification for each new or reconstructed tank as follows:

- (A) A notification of the actual dates when construction of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, commenced shall be submitted no later than thirty (30) days after such dates.
- (B) A notification of the actual date of startup of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, shall be submitted within thirty (30) days after such date.

(2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.

- (A) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
- (B) The NCS for the two (2) decorative chromium plating tanks, identified as stations 68 and 69, shall be submitted to IDEM, OAQ no later than 30 days after the startup date.

(3) Notification of Construction or Reconstruction

Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct the two (2) decorative chromium plating tanks, identi-

ified as stations 68 and 69, without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.

- (A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
- (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
- (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct the two (2) decorative chromium plating tanks, identified as stations 68 and 69, serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.

(b) Performance Test Results

The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of the two (2) decorative chromium plating tanks, identified as stations 68 and 69, using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because the two (2) decorative chromium plating tanks, identified as stations 68 and 69, are located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
 - (A) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.
 - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If both of the following conditions are met, semiannual reports shall be

prepared and submitted to IDEM, OAQ:

- (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.8.9(b) for the reporting period; and**
- (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.8.9(b).**

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

- (3) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.**

Conclusion

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Permit Revision No. 031-17357-00007.

Appendix A: Emission Calculations
Process Operations

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Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
Minor Permit Revision: 031-17357
Plt ID: 031-00007
Reviewer: CarrieAnn Paukowits
Date: March 17, 2003

	Emission Factor (gr/dscf)	Total Flow Rate (cfm)	PTE before Control (lbs/hr)	PTE before Control (tons/yr)	Control Efficiency	PTE after Control (lbs/hr)	PTE after Control (tons/yr)	Weight % Lead	PTE Lead before controls (tons/yr)	PTE Lead after controls (tons/yr)
Chromium Electroplating										
PM	2.5E-06	14000	0.00030	0.001314	99.98%	6.0E-08	2.6E-07	0.00005	6.6E-08	1.3E-11
Chromium	1.2E-06	14000	0.00014	0.000631	99.98%	2.9E-08	1.3E-07			
Nickel Electroplating										
PM	6.7E-06	38690	0.044438	0.194639	95.00%	0.002222	0.009732			
Nickel	6.7E-06	38690	0.044438	0.194639	95.00%	0.002222	0.009732			
Copper Sulfate Electroplating										
PM	0.000081	4420	0.061375	0.268822	95.00%	0.003069	0.013441			
Copper	0.000081	4420	0.061375	0.268822	95.00%	0.003069	0.013441			

Methodology

Chromium Electroplating

Emission factor for decorative chromium electroplating (SCC 3-09-1010-28) using a fume suppressant from AP-42, Table 12.20-1

After control is after the scrubber. The scrubber is not required for compliance.

PTE before Control (lbs/hr) = Emission factor (gr/dscf) x Total flow rate (cfm) x (60 min/hr / 7,000 gr/lb)

PTE Lead before Control (lbs/hr) = PTE PM before Control (lbs/hr) x Weight % Lead

PTE after Control (lbs/hr) = PTE before Control (lbs/hr) x (1-Control Efficiency)

PTE (tons/yr) = PTE (lbs/hr) x 8,760 hrs/yr / 2,000 lbs/ton

Nickel and Copper Sulfate Electroplating

Emission factors for Nickel electroplating (SCC 3-09-010-68) using a wet scrubber and Copper Sulfate Electroplating using a wet scrubber (SCC 3-09-010-45) from AP-42, Table 12.20-4

PTE after Control (lbs/hr) = Emission factor (gr/dscf) x Total flow rate (cfm) x (60 min/hr / 7,000 gr/lb)

PTE before Control (lbs/hr) = PTE after Control (lbs/hr) / (1-Control Efficiency)

PTE (tons/yr) = PTE (lbs/hr) x 8,760 hrs/yr / 2,000 lbs/ton

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Percentage of Material (/shift)	Tank Capacity (gallons)	Number of Shifts per day	Potential VOC (tons/yr)
Fume Suppressant	8.76	12.00%	0.0%	12.0%	0.0%	0.05%	1603	3.00	0.461

A negligible amount of glycol ethers may be emitted from the UDYPREP 340 Acid Salt.

Methodology

PTE VOC (tons/yr) = Density (lbs/gal) x Weight % Organics x Percentage of Material (/shift) x Tank Capacity (gallons) x Number of Shifts per Day x 365 Days/yr / 2,000 lbs/ton

Totals	PTE before Control (lbs/hr)	PTE before Control (tons/yr)	PTE after Control (lbs/hr)	PTE after Control (tons/yr)
PM	0.106	0.465	0.005	0.023
Chromium	1.44E-04	6.31E-04	2.88E-08	1.26E-07
Nickel	0.044	0.195	0.002	0.010
Lead		6.57E-08		1.31E-11
Total HAPs		0.195		0.010
VOC		0.461		0.461